

PRELIMINARY PROGRAM
Ninth Annual V. M. Goldschmidt Conference
August 22–27, 1999

The following is a list of technical sessions along with their rooms and times. To view the full program listing, simply use your Reader's hand tool to click on the name of a session you're interested in. The full program listing for that session will appear, at which point you can click on the title of a presentation to view the abstract. Asterisks next to an author's name indicate the speaker, and numbers in brackets following a title indicate the abstract number. Titles that are NOT followed by a number do not have an accompanying abstract.

Monday Morning, 8:15 a.m.

Lecture Hall B Plenary Session I: Introductory Remarks

Monday Morning, 8:30 a.m.

Lecture Hall A Global Cycles of Calcium and Carbon: Records and Models

Lecture Hall B Absolute Timescale Calibration from the Big Bang to Noah's Ark

Lecture Hall C The Nature of Igneous Layering and Melt Transport in Oceanic and
Continental Layered Intrusions

Lecture Hall D Atmospheric Geochemistry

Lecture Hall E Geochemical Kinetics: Studies of Diffusion, Sorption, and Dissolution

Monday Afternoon, 1:30 p.m.

Lecture Hall A Molecular Records of Biological and Ecological Evolution: From
Biomarkers to Phylogenetics
and

3:30 p.m. Biogeochemistry

Lecture Hall B Dating Isotopic Signatures in the Early Solar System

Lecture Hall C Mantle Melting: Sources, Timescales, Melt Migration, and Melt-Solid
Interaction. Part I: Mid-Ocean Ridges

Lecture Hall D History of Ocean Water and Its Salts

Lecture Hall E Geochemistry of Hydrothermal Ore Deposits and Aqueous

Geochemistry I: A Symposium in Honor of Hubert L. Barnes

Monday Afternoon, 5:15 p.m.

Lecture Hall B Plenary Session II: Induction of the 1999 EAG/GS Geochemistry Fellows

5:30 p.m. Geochemical Society Presidential Address by Michael J. Drake

Tuesday Morning, 8:30 a.m.

Lecture Hall A Black Carbon in the Environment I: Analytical Challenges

Lecture Hall B Origin and Early Evolution of the Terrestrial Planets

Lecture Hall C Mantle Melting: Sources, Timescales, Melt Migration, and Melt-Solid Interaction. Part II: The Arc Environment

Lecture Hall D Marine Geochemistry I: Rare Earth Elements and Iron-Manganese Crusts

Lecture Hall E Geochemistry of Hydrothermal Ore Deposits and Aqueous Geochemistry II: A Symposium in Honor of Hubert L. Barnes

Tuesday Afternoon, 1:30 p.m.

Lecture Hall A Black Carbon in the Environment II: Soils

Lecture Hall B Continent Formation and Evolution I: Early Earth and Crustal Growth Rates

Lecture Hall C Mantle Melting: Sources, Timescales, Melt Migration, and Melt-Solid Interaction. Part III: Melt Inclusions and Peridotites

Lecture Hall D Marine Geochemistry II: Marine Chemistry

Lecture Hall E Geochemistry of Hydrothermal Ore Deposits and Aqueous Geochemistry III: A Symposium in Honor of Hubert L. Barnes

Tuesday Afternoon, 5:15 p.m.

Lecture Hall B Plenary Session III: Patterson Award

5:35 p.m. Lecture by Gerald J. Wasserburg

Tuesday Evening, 8:30–10:00 p.m.

Science Center Poster Session

Wednesday Morning, 8:30 a.m.

Lecture Hall A Black Carbon in the Environment III: Sediments

Lecture Hall B Goldschmidt's Legacy I: A Symposium in Honor of Brian Mason

Lecture Hall C Mantle Melting: Sources, Timescales, Melt Migration, and Melt-Solid Interaction. Part IV: Ocean Island Basalts

Wednesday Morning, 8:30 a.m. (continued)

- Lecture Hall D Marine Geochemistry III: Paleoceanography and Paleoclimatology
Lecture Hall E Geochemistry of Hydrothermal Ore Deposits and Aqueous
Geochemistry IV: A Symposium in Honor of Hubert L. Barnes

Wednesday Afternoon, 1:30 p.m.

- Lecture Hall A Geochemical Perspectives on Weathering
Lecture Hall B Goldschmidt's Legacy II: A Symposium in Honor of Brian Mason
and
3:30 p.m. Continent Formation and Evolution II: Dynamics of
Growth and Loss
Lecture Hall C Mantle Melting: Sources, Timescales, Melt Migration, and Melt-Solid
Interaction. Part V: Ocean Island Basalts and Continental Lavas
Lecture Hall D Marine Geochemistry IV: Paleoceanography and Paleoclimatology
Lecture Hall E Isotopic Tracers of Human Influence on the Environment

Wednesday Evening, 6:30–9:30 p.m.

- Memorial Hall 6:30 – 7:30 p.m. Cocktail Hour
7:30 – 9:30 p.m. Banquet, Goldschmidt and Clarke Awards

Thursday Morning, 8:30 a.m.

- Lecture Hall A Microbial Biogeochemistry I: Aquatic and Sediments
Lecture Hall B Continent Formation and Evolution III: Recycling and Subduction Flux
and
9:30 a.m. Continent Formation and Evolution IV: Lower Crust
Lecture Hall C The Deep Earth: Reconciling Geochemical, Geophysical, and
Mineral Physics Constraints
Lecture Hall D Precambrian Oceans and Atmospheres I
Lecture Hall E Availability and Reactivity of Environmental Contaminants

Thursday Afternoon, 1:30 p.m.

- Lecture Hall A Microbial Biogeochemistry II: Aquatic and Sediments
Lecture Hall B Continent Formation and Evolution V: Lithospheric Mantle
Lecture Hall C Experimental Petrology
Lecture Hall D Precambrian Oceans and Atmospheres II
Lecture Hall E Environmental Geochemistry I: Field Studies

Thursday Afternoon, 5:15 p.m.

Lecture Hall B Plenary Session IV: Urey Award

5:35 p.m. Lecture by Karl K. Turekian

Friday Morning, 8:30 a.m.

Lecture Hall A Experimental and Theoretical Geomicrobiology I

Lecture Hall B Crustal Geochemistry I

Lecture Hall C Advances in Analytical Techniques I

Lecture Hall D Geochemical Signatures of Mass Extinction

Lecture Hall E Environmental Geochemistry II: Experimental Studies

Friday Afternoon, 1:30 p.m.

Lecture Hall B Plenary Session V: Paul Gast Lecture by Bernard J. Wood

Friday Afternoon, 3:00 p.m.

Lecture Hall A Experimental and Theoretical Geomicrobiology II

Lecture Hall B Crustal Geochemistry II

Lecture Hall C Mantle Geochemistry

Lecture Hall D Advances in Analytical Techniques II

Lecture Hall E Environmental Geochemistry III: Theoretical and Isotopic Studies

Print-Only Presentations